WHAT IS CLAIMED IS:

A revenue meter which is enclosed within an enclosure, the revenue meter measuring the delivery of electrical energy from an energy supplier to a consumer through a first electric circuit, the revenue meter comprising:

an interface link;

an I/O device physically separate from the enclosure of the revenue meter, operative to connect said interface link of the revenue meter to said I/O device, wherein said I/O device connects to at least one second electric circuit.

- The revenue meter according to claim 1, wherein said I/O device 2. further includes a microprocessor operative to process signals within said second electric circuit to communicate at least one I/O signal.
- The revenue meter according to claim 1, wherein said I/O device 3. is powered by the revenue meter.
- The revenue meter according to claim 1, wherein the revenue 4. meter accurately timestamps transition times of at least one input of said I/O device.
- 5. The revenue meter according to claim 1, further comprising: bayonet terminals disposed on the revenue meter mateable with matching jaws of a detachable meter mounting device; and a seal connected between the revenue meter and said detachable meter mounting device, said seal operative to prevent removal of
 - 6. The revenue meter according to claim 1, further comprising: a display;

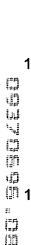
terminals disposed on a bottom side of the revenue meter for coupling the revenue meter with the first electric circuit;

the revenue meter and indicate tampering with the revenue meter.

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a meter cover operative to enclose the revenue meter and said display;

a terminal cover for covering said terminals; and a first seal connected with said meter cover and operative to prevent removal of said meter cover.

The revenue meter according to claim 1, further comprising: 7. a draw-out chassis coupled with the revenue meter and operative to fit within a switchboard enclosure;

terminals disposed on said chassis for engaging matching terminals within said enclosure;

a display;

a meter cover operative to enclose the revenue meter and said display within said switchboard enclosure; and

a seal connected with said rheter cover and operative to prevent removal of said meter cover and indicate tampering with the revenue meter.

An I/O device for use with a revenue meter, the revenue meter measuring the delivery of electrical energy from an energy supplier to a consumer through a first electric circuit and including an interface link, the I/O device comprising:

a connector located on the I/O device being operative to connect the I/O device via the interface link to the revenue meter, wherein the I/O device is physically separate from the revenue meter; and

a microprocessor operative to process and communicate at least one I/O signal.



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